

## ABSTRACT

The present invention relates to a method of balancing a load and method of setting up a call using the load balancing method in a General Packet Radio Service (GPRS) network, which prevents a load from concentrating on a specific Gateway GPRS Supporting Node (GGSN) in the GPRS network, thus reducing a probability of failure in session establishment due to increased traffic. In the load balancing method, when a Service GPRS Supporting Node (SGSN) connected to a mobile node establishes a session, it selects a GGSN having a smallest number of established sessions among a plurality of GGSNs corresponding to an Access Point Name (APN) included in an Activate PDP Context Request message received from the mobile node and requests the selected GGSN to establish a session, thus solving a problem in which a load concentrates on a specific GGSN.